

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1326768

Luminaire Tested: LDSQA3D09R45W2N902750DE010 3LSQCA45R 1MMS_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R45W2N902750DE010 3LSQCA45R 1MMS_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 3000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

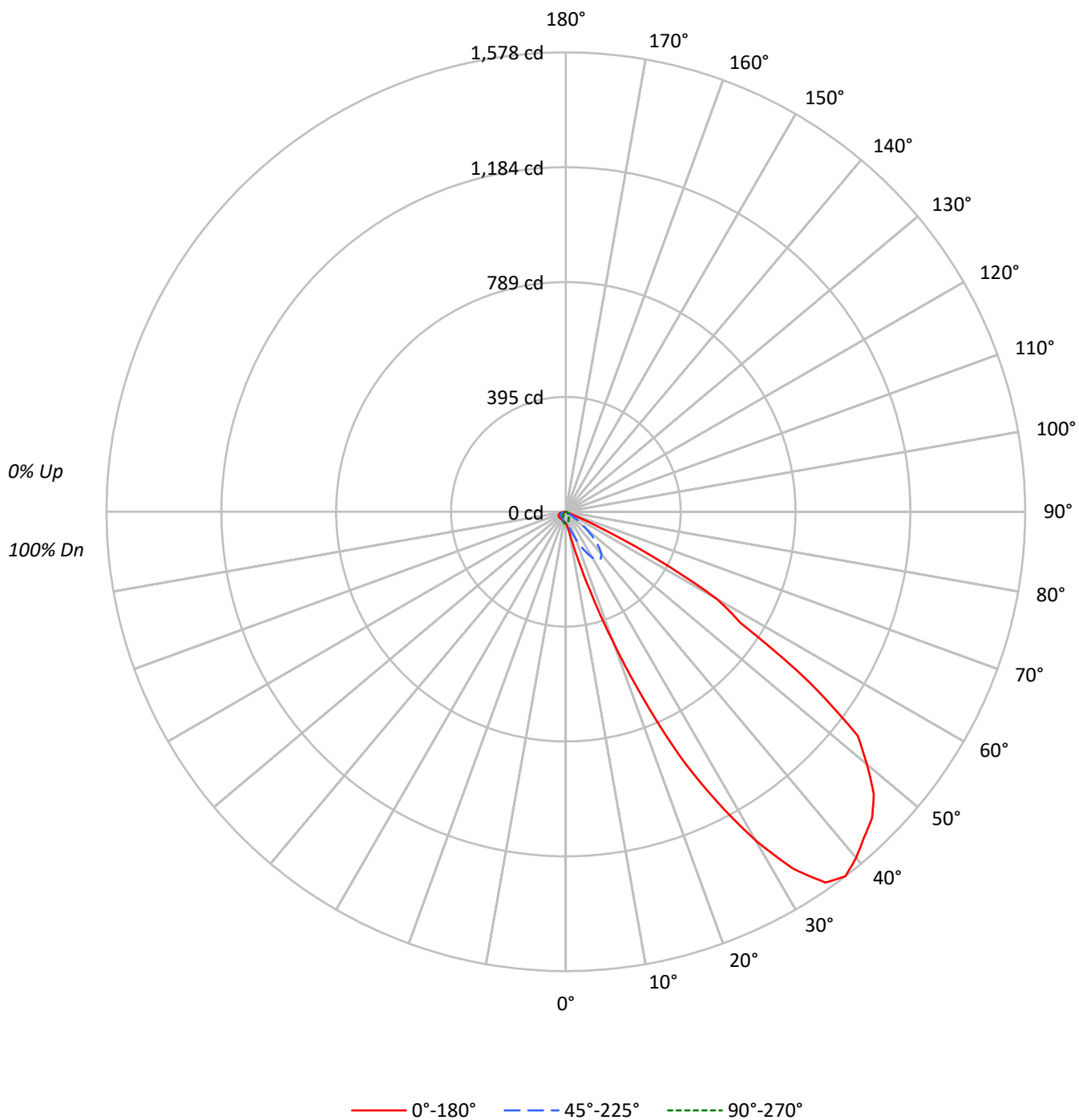
Lumens per Lamp: N/A
Luminaire Lumens: 705.0 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7027	7027	7027	7027	7027
5°	8350	7762	6950	6448	6448
10°	13343	9059	6523	6121	6121
15°	33235	12160	5919	5706	5919
20°	87551	18144	5132	5443	5773
25°	175775	26908	4428	5093	5644
30°	259142	36034	3599	4972	5787
35°	326889	42259	3070	4899	5992
40°	348764	42693	2743	5103	6407
45°	362368	35608	2557	5529	6941
50°	361787	24810	2492	5921	7797
55°	307497	11020	2612	6636	8557
60°	206667	2204	2618	7440	9817
65°	54851	937	2608	8069	11166
70°	1460	1158	2618	8812	12589
75°	1131	1131	2728	9316	14373
80°	1190	1686	2876	9819	16166
85°	1186	2371	4545	10275	16203

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 371701 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.1	0.6
10°-20°	19.9	2.8
20°-30°	82.0	11.6
30°-40°	172.8	24.5
40°-50°	213.2	30.2
50°-60°	159.8	22.7
60°-70°	41.1	5.8
70°-80°	8.5	1.2
80°-90°	3.5	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	106.0	15.0
0°-40°	278.8	39.5
0°-60°	651.9	92.5
0°-90°	705.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	705.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	41	41	41	41	41	
5°	48	45	40	37	37	5
15°	186	68	33	32	33	68
25°	925	142	23	27	30	431
35°	1555	201	15	23	28	947
45°	1488	146	10	23	28	1138
55°	1024	37	9	22	28	884
65°	135	2	6	20	27	194
75°	2	2	4	14	22	2
85°	1	1	2	5	8	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
2.5°	43.1	43.1	43.1	43.1	43.1	43.1	43.1	42.5	41.9	40.8	39.6
5°	48.3	47.8	47.8	47.8	47.2	46.6	46.6	44.9	42.5	40.2	38.4
7.5°	57.1	57.1	56.5	55.3	54.8	53.6	52.4	47.8	42.5	39.0	36.7
10°	76.3	75.1	73.4	72.2	69.3	65.2	62.3	51.8	41.9	37.3	35.5
12.5°	114.2	116.5	110.7	104.9	96.7	89.1	79.8	58.8	41.9	35.5	33.8
15°	186.4	190.5	179.4	167.8	148.0	129.3	111.8	68.2	40.8	33.2	31.5
17.5°	304.7	309.9	291.3	263.9	233.0	195.7	163.7	81.0	39.6	30.9	29.7
20°	477.7	477.1	441.0	406.6	347.2	292.4	232.4	99.0	37.9	28.0	28.0
22.5°	690.3	692.6	648.3	586.6	502.1	414.2	318.6	120.0	35.5	25.6	26.2
25°	925.0	905.2	852.8	777.7	669.9	548.2	422.3	141.6	33.2	23.3	24.5
27.5°	1120.8	1101.6	1041.6	952.4	836.5	692.0	527.8	163.1	30.3	21.0	22.7
30°	1303.1	1278.6	1206.4	1105.6	967.6	811.5	626.8	181.2	26.8	18.1	21.0
32.5°	1453.4	1431.3	1349.1	1232.0	1081.7	914.0	710.7	195.1	23.3	16.3	19.8
35°	1554.8	1532.0	1456.3	1327.6	1163.9	988.5	778.8	201.0	20.4	14.6	19.2
37.5°	1578.1	1565.8	1511.7	1391.1	1220.4	1036.3	822.5	199.2	16.9	13.4	18.1
40°	1551.3	1554.2	1528.5	1428.3	1250.7	1056.7	840.6	189.9	14.0	12.2	17.5
42.5°	1516.9	1524.5	1522.7	1443.5	1263.5	1057.9	833.0	171.3	11.1	11.1	16.9
45°	1487.8	1495.3	1505.8	1437.1	1254.8	1042.7	809.1	146.2	8.2	10.5	16.9
47.5°	1434.8	1442.9	1458.1	1385.8	1210.5	1003.7	766.0	118.8	5.8	9.9	16.3
50°	1350.3	1354.4	1350.3	1269.3	1125.4	940.8	696.1	92.6	4.1	9.3	16.3
52.5°	1263.5	1255.3	1221.6	1119.0	990.3	841.2	608.2	65.8	2.9	8.7	15.7
55°	1024.1	1011.3	986.2	923.3	849.9	718.8	491.7	36.7	2.9	8.7	15.1
57.5°	713.6	720.6	729.3	716.5	682.7	566.2	373.4	16.3	2.9	8.2	15.1
60°	600.0	594.2	594.8	586.6	530.7	413.0	256.9	6.4	2.9	7.6	14.6
62.5°	358.3	362.3	369.9	371.7	316.3	230.7	134.6	2.9	2.9	7.0	14.0
65°	134.6	141.0	123.5	107.2	85.0	62.3	31.5	2.3	3.5	6.4	12.8
67.5°	4.1	4.7	5.8	5.2	5.2	4.7	3.5	2.3	3.5	5.8	12.2
70°	2.9	2.9	2.9	2.9	2.9	2.3	2.3	2.3	2.9	5.2	11.1
72.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.9	4.7	9.9
75°	1.7	2.3	1.7	1.7	1.7	1.7	1.7	1.7	2.9	4.1	8.2
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3	3.5	7.0
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7	2.3	2.9	5.8
82.5°	1.2	1.2	1.2	0.6	1.2	1.2	1.2	1.2	2.3	2.3	4.7
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.7	2.3	2.9
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	1.2	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	40.8	40.8	40.8
2.5°	38.4	38.4	38.4
5°	37.3	37.3	37.3
7.5°	36.1	36.1	36.1
10°	35.0	35.0	35.0
12.5°	33.8	33.8	34.4
15°	32.0	33.2	33.2
17.5°	30.9	32.0	32.6
20°	29.7	30.9	31.5
22.5°	28.0	29.7	30.9
25°	26.8	29.1	29.7
27.5°	25.6	28.5	29.7
30°	25.0	28.0	29.1
32.5°	23.9	27.4	28.5
35°	23.3	27.4	28.5
37.5°	23.3	26.8	28.5
40°	22.7	26.8	28.5
42.5°	22.7	26.8	28.5
45°	22.7	26.8	28.5
47.5°	22.1	26.8	29.1
50°	22.1	27.4	29.1
52.5°	22.1	27.4	29.1
55°	22.1	27.4	28.5
57.5°	21.6	26.8	28.5
60°	21.6	26.8	28.5
62.5°	20.4	26.2	28.0
65°	19.8	25.6	27.4
67.5°	18.6	25.0	26.2
70°	17.5	23.3	25.0
72.5°	15.7	22.1	23.9
75°	14.0	20.4	21.6
77.5°	12.2	18.1	19.2
80°	9.9	15.1	16.3
82.5°	7.6	11.7	12.2
85°	5.2	7.6	8.2
87.5°	2.3	3.5	4.1
90°	0.0	0.0	0.0

(END OF REPORT)